

LNP* Lubriloy* Compound Z20001XX

Asia Pacific: COMMERCIAL

Also known as: LNP* Lubriloy* Compound Z-FR

Product reorder name: Z20001XX

LNP* Lubriloy* Z20001XX is a compound based on PPE+PS Blend resin containing Flame Retardant, Proprietary Lubricant. Added features of this material include: Internally Lubricated, Non-Brominated & Non-Chlorinated Flame Retardant, Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yield	57	MPa	ASTM D 638
Tensile Stress, break	46	MPa	ASTM D 638
Tensile Strain, yield	4.8	%	ASTM D 638
Tensile Strain, break	39	%	ASTM D 638
Tensile Modulus, 50 mm/min	2150	MPa	ASTM D 638
Flexural Stress	89	MPa	ASTM D 790
Flexural Modulus	2320	MPa	ASTM D 790
Tensile Stress, yield	54	MPa	ISO 527
Tensile Stress, break	46	MPa	ISO 527
Tensile Strain, yield	4.7	%	ISO 527
Tensile Strain, break	14.3	%	ISO 527
Tensile Modulus, 1 mm/min	2000	MPa	ISO 527
Flexural Stress	73	MPa	ISO 178
Flexural Modulus	2010	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	2322	J/m	ASTM D 4812
Izod Impact, notched, 23°C	347	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	41	J	ASTM D 3763
Multiaxial Impact	44	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	18	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	97	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.1E-05	1/°C	ASTM E 831

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
THERMAL			
CTE, -40°C to 40°C, flow	8.1E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.58E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.1E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	9.1E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	103	°C	ISO 75/Af
PHYSICAL			
Density	1.12	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1 - 1.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.2 - 1.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1 - 1.2	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.2 - 1.4	%	ISO 294
Wear Factor Washer	68	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.24	-	ASTM D 3702 Modified
Static COF	0.15	-	ASTM D 3702 Modified
Density	1.11	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.09	%	ISO 62
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.5	mm	UL 94 by GE